## Corrigendum

## "Y Sorbitol as a diluent in tablets"

In Drug Development and Industrial Pharmacy 11, 551-564, some mistakes were introduced in the text; so, would you please read the new pages 558-559 in place of the old ones.

According to the above mentioned litterature, it could be thought that the  $86\text{-}87^{\circ}$  C melting form is the  $\alpha$  form and the  $91.7^{\circ}$  C melting form, the  $\beta$  form.

Each sort of Sorbitol has its own use in food or pharmaceutical industries. Regarding their use in their solid state as diluents in tablet formulation, it seems that the more stable form is the  $\gamma$  one.

We tested it for hygroscopicity and we compared it with the following:  $S_1 (\alpha + \beta + \gamma \text{ Sorbitol})$ 

 $S_{\alpha}$  (much  $\alpha + \beta$ )

 $S_{11}$  (very impure  $\gamma$  form)

After one month's storage at different relative humidities, we measured the water content increase of these four samples by the Karl Fischer method.

The results are displayed in table II.

TABLE II: The water content of different samples of Sorbitol after one month's storage at different relative humidities and at 20° C

	Time 0	III	After one month		
Relative humidity		22% RH	54% RH	70% RH	80% RH
Type of sorbitol:					
$s_2(\gamma)$	0.40 %	0.10 %	1.20 %	3.10 %	17.90 %
$s_1 (\alpha + \beta + \gamma)$	0.67 %	1.30 %	2.40 %	4.60 %	27.85 %
$S_8$ (much $\alpha+\beta$ )	0.25 %	0.20 %	0.50 %	4.80 %	21.00 %
S <sub>11</sub> (very impure γ form)	0.80 %	0.85 %	1.30 %	4.75 %	24.90 %



Considering these results, we selected a pure  $\gamma$  Sorbitol for tablet formulation study.

II. Compression and tablet study of tablets prepared with  $\gamma$  Sorbitol II.1. Compression study

TABLE III: Compression parameters of Sorbitol and Lactose tablets = upper punch displacement (volume of compression chamber remaining constant : depth = 1 cm)  $y_1$  = maximum upper punch stress (KN)  $y_2$  /  $y_1$  = maximum lower punch stress (KN)  $y_2$  /  $y_1$  = is indicative of stress transmission through the powder during the compression

Drug	Disin- tegrant	Diluant	×	_ y	c.v.	_ y	<sup>2</sup> c.v.	y <sub>2</sub> /y <sub>1</sub>
Aspirin	Maĭze Starch	Sorbitol Lactose	408 418	10.4 9.8	2.1%	7.8 7.9	2.3%	0.75 0.81
	Kollidon CL	Sorbitol Lactose	324 435	5.2 5.6	4.8% 5.0%	4.2 4.3	5.0% 4.0%	0.81 0.78
	Ac Di Sol	Sorbitol Lactose	403 403	5.8 5.4	5.4% 4.4%			
Ascorbic Acid	Ma <b>ĭz</b> e Starch	Sorbitol Lactose	352 364	10.7 9.9	3.5% 1.5%	9.1 8.6	3.4% 1.4%	0.85 0.87
	Kollidon CL	Sorbitol Lactose :	456 487	$9.1 \\ 11.1$	3.2% 2.8%	7.6 9.2	3.2% 2.8%	0.83 0.84
	Ac Di Sol	Sorbitol Lactose	390 403	12.0 5.8	1.8% 5.4%			

Sorbitol/Lactose comparison: Except for the Ascorbic Acid/Ac Di Sol tablets, the results are nearly the same but for a sound discussion they must be compared with hardness values of resulting tablets.

II.2. Hardness

TABLE IV: Hardness of Sorbitol and Lactose tablets (in KN)

			_Hardness m C.V.		Hardness y <sub>1</sub>
Aspirin	1	Sorbitol Lactose	124 90	7.7% 10.8%	1.19
	Kollidon CL	Sorbitol Lactose	64 60	11 % 11.8%	1.22 1.07
	Ac Di Sol	Sorbitol Lactose	87 50	11.3% 11.8%	1.51 0.92
Ascorbic Acid	Maĭze Starch	Sorbitol Lactose	54 29	8.3% 8.3%	0.51 0.29
	Kollidon CL	Sorbitol Lactose	65 56	10.7% 11.6%	0.71 0.51
	Ac Di Sol	Sorbitol Lactose	91 52	8 % 12.9%	0.76 0.44

